



5. The fuel cell system of claim 1, wherein said evaluation unit is configured to compare a time-dependent change of said first operating parameter to a desired change of said first operating parameter.

6. The fuel cell system of claim 1, wherein a change of said second operating parameter causes a change of said first operating parameter; and, wherein said evaluation unit further comprises a filter device for separating said change of said first operating parameter from changes of other operating parameters of said fuel cell system.

7. The fuel cell system of claim 1, wherein said evaluation unit includes at least one control unit for controlling said fuel cell unit.

8. The fuel cell system of claim 1, wherein said evaluation unit includes a control unit for controlling said fuel preparation unit.

9. The fuel cell system of claim 1, wherein said evaluation unit includes a recording device for recording the time-dependent trace of at least one of said operating parameters.

10. A motor vehicle comprising:

a fuel cell system incorporating a fuel preparation unit and a fuel cell unit connected to said fuel preparation unit;

said fuel cell unit having a first operating parameter and said fuel cell system having a second operating parameter which

changes in a known manner as a function of time;

a measuring unit for measuring at least said first operating parameter; and,

an evaluation unit incorporating said measuring unit and  
10 being configured to evaluate a time-dependent change of said first operating parameter in dependence upon the time-dependent change of said second operating parameter.

11. A generator system comprising:

a fuel preparation unit;

a fuel cell unit connected to said fuel preparation unit;

said fuel cell unit having a first operating parameter and  
5 said fuel cell system having a second operating parameter which changes in a known manner as a function of time;

a measuring unit for measuring at least said first operating parameter; and,

an evaluation unit incorporating said measuring unit and  
10 being configured to evaluate a time-dependent change of said first operating parameter in dependence upon the time-dependent change of said second operating parameter.